

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/593,032  
Source: IFWP  
Date Processed by STIC: 9/25/06

**ENTERED**



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/593,032

DATE: 09/25/2006  
TIME: 10:29:17

Input Set : A:\PTO.RJ.txt  
Output Set: N:\CRF4\09252006\J593032.raw

3 <110> APPLICANT: Japan Science and Technology Agency  
5 <120> TITLE OF INVENTION: CLINICAL DIAGNOSTIC REAGENT AND DIAGNOSTIC METHOD FOR  
TESTING INFECTION  
6 OF ADULT TAENIA SOLIUM AND TAENIA SAGINATA  
8 <130> FILE REFERENCE: FS05-425PCT  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/593,032  
C--> 10 <141> CURRENT FILING DATE: 2006-09-15  
10 <160> NUMBER OF SEQ ID NOS: 20  
12 <170> SOFTWARE: PatentIn version 3.1  
14 <210> SEQ ID NO: 1  
15 <211> LENGTH: 85  
16 <212> TYPE: PRT  
17 <213> ORGANISM: Taenia saginata  
19 <400> SEQUENCE: 1  
21 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala  
22 1 5 10 15  
25 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys  
26 20 25 30  
29 Lys Glu Lys Val Ala Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu  
30 35 40 45  
33 Gly Gln Lys Leu Ala Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys  
34 50 55 60  
37 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys Tyr Val Lys Glu  
38 65 70 75 80  
41 Leu Lys Asp Glu Asn  
42 85  
45 <210> SEQ ID NO: 2  
46 <211> LENGTH: 85  
47 <212> TYPE: PRT  
48 <213> ORGANISM: Taenia saginata  
50 <400> SEQUENCE: 2  
52 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala  
53 1 5 10 15  
56 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys  
57 20 25 30  
60 Lys Glu Lys Val Ala Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu  
61 35 40 45  
64 Gly Gln Lys Leu Ala Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys  
65 50 55 60  
68 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys His Val Lys Glu  
69 65 70 75 80  
72 Leu Lys Asp Glu Asn  
73 85  
76 <210> SEQ ID NO: 3

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77 <211> LENGTH: 85  
78 <212> TYPE: PRT  
79 <213> ORGANISM: *Taenia saginata*,  
81 <400> SEQUENCE: 3  
83 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala  
84 1 5 10 15  
87 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys  
88 20 25 30  
91 Lys Glu Lys Val Ala Lys Trp Glu Arg Phe Phe Asp Glu Asp Pro Leu  
92 35 40 45  
95 Gly Gln Lys Leu Ala Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys  
96 50 55 60  
99 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys Tyr Val Lys Glu  
100 65 70 75 80  
103 Leu Lys Asp Glu Asn  
104 85  
107 <210> SEQ ID NO: 4  
108 <211> LENGTH: 85  
109 <212> TYPE: PRT  
110 <213> ORGANISM: *Taenia saginata*  
112 <400> SEQUENCE: 4  
114 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala  
115 1 5 10 15  
118 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys  
119 20 25 30  
122 Lys Glu Lys Val Ala Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu  
123 35 40 45  
126 Gly Gln Lys Leu Ala Asp His Tyr Ala Asn Trp Ile Glu Leu Val Lys  
127 50 55 60  
130 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys His Val Lys Glu  
131 65 70 75 80  
134 Leu Lys Asp Glu Asn  
135 85  
138 <210> SEQ ID NO: 5  
139 <211> LENGTH: 44  
140 <212> TYPE: PRT  
141 <213> ORGANISM: *Taenia solium*  
143 <400> SEQUENCE: 5  
145 Lys Asn Pro Val Arg Val Ile Arg Thr Lys Tyr Lys Glu Lys Val Ala  
146 1 5 10 15  
149 Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu Gly Gln Lys Ile Ala  
150 20 25 30  
153 Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys Glu  
154 35 40  
157 <210> SEQ ID NO: 6  
158 <211> LENGTH: 71  
159 <212> TYPE: PRT  
160 <213> ORGANISM: *Hymenolepis diminuta*  
162 <400> SEQUENCE: 6

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164 Met Glu Gln Glu Thr Asn Pro Ile Arg Arg Ile Lys Thr Lys Ala Lys  
 165 1 5 10 15  
 168 Glu Tyr Phe Ala Ala Arg Glu Arg Phe Tyr Asp Glu Asp Pro Leu Gly  
 169 20 25 30  
 172 Lys Gln Ile Ala Ala His Leu Ser Lys Trp Arg Glu Ile Ile Arg Asp  
 173 35 40 45  
 176 Val Arg Ala Arg Leu Arg Gly Tyr Leu Arg Lys Tyr Leu Asn Asp Leu  
 177 50 55 60  
 180 Gln Lys Glu Tyr Pro Lys Ala  
 181 65 70  
 184 <210> SEQ ID NO: 7  
 185 <211> LENGTH: 67  
 186 <212> TYPE: PRT  
 187 <213> ORGANISM: Moniezia expansa  
 189 <400> SEQUENCE: 7  
 191 Met Glu Gln Glu Thr Asn Pro Ile Arg Ala Ile Lys Lys Arg Ile Thr  
 192 1 5 10 15  
 195 Ser Tyr Leu Lys Ser Arg Glu Glu Phe Tyr Asp Lys Asp Pro Leu Gly  
 196 20 25 30  
 199 Gln Lys Ile Ala Lys Phe Tyr Gly Glu Trp Lys Glu Leu Val Ala Glu  
 200 35 40 45  
 203 Val Arg Lys Arg Val Arg Ala Arg Ile Ala Ala Tyr Val Lys Lys Leu  
 204 50 55 60  
 207 Gln Glu Glu  
 208 65  
 211 <210> SEQ ID NO: 8  
 212 <211> LENGTH: 258  
 213 <212> TYPE: DNA  
 214 <213> ORGANISM: Taenia saginata  
 216 <400> SEQUENCE: 8  
 217 atgggagtgc ccatcatcgcc tctcctcacc ctcctggctg tggtcgcgt gtctgctgaa 60  
 219 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaagggtggc gaaatgggag 120  
 221 aagttctttg atgaggaccc tctaggccag aagcttgcgg atcactatgc caagttgagg 180  
 223 gaactggta aggaagttag actacgtatt cgtaaggcca ttgcaaagta tgtgaaggag 240  
 225 ttaaaggatg agaactga 258  
 228 <210> SEQ ID NO: 9  
 229 <211> LENGTH: 258  
 230 <212> TYPE: DNA  
 231 <213> ORGANISM: Taenia saginata  
 233 <400> SEQUENCE: 9  
 234 atgggagtgc ccatcatcgcc tctcctcacc ctcctggctg tggtcgcgt gtctgctgaa 60  
 236 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaagggtggc gaaatgggag 120  
 238 aagttctttg atgaggaccc tctaggccag aagcttgcgg atcactatgc caagttgagg 180  
 240 gaactggta aggaagttag actacgtatt cgtaaggcca ttgcaaagca tgtgaaggag 240  
 242 ttaaaggatg agaactga 258  
 245 <210> SEQ ID NO: 10  
 246 <211> LENGTH: 258  
 247 <212> TYPE: DNA  
 248 <213> ORGANISM: Taenia saginata

RAW SEQUENCE LISTING DATE: 09/25/2006  
 PATENT APPLICATION: US/10/593,032 TIME: 10:29:17

Input Set : A:\PTO.RJ.txt  
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250 <400> SEQUENCE: 10  
 251 atgggagtgc ccatcatcg ctcctcacc ctcctggctg tggtcgcgt gtctgctgaa 60  
 253 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaagggtggc gaaaatgggag 120  
 255 aggttcttg atgaggaccc tctaggccag aagcttgcgt atcaactatgc caagttgagg 180  
 257 gaactggta aggaagttag actacgtatt cgtaaggcca ttgcaaagta tgtgaaggag 240  
 259 ttaaaggatg agaactga 258  
 262 <210> SEQ ID NO: 11  
 263 <211> LENGTH: 258  
 264 <212> TYPE: DNA  
 265 <213> ORGANISM: Taenia saginata  
 267 <400> SEQUENCE: 11  
 268 atgggagtgc ccatcatcg ctcctcacc ctcctggctg tggtcgcgt gtctgctgaa 60  
 270 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaagggtggc gaaaatgggag 120  
 272 aagttcttg atgaggaccc tctaggccag aagcttgcgt atcaactatgc caattggata 180  
 274 gaactggta aggaagttag actacgtatt cgtaaggcca ttgcaaagca tgtgaaggag 240  
 276 ttaaaggatg agaactga 258  
 279 <210> SEQ ID NO: 12  
 280 <211> LENGTH: 310  
 281 <212> TYPE: DNA  
 282 <213> ORGANISM: Taenia solium  
 284 <400> SEQUENCE: 12  
 285 gtaagtgtac ttgtcattac cctaaccctt ctttcgtctt ctagagaggt aagttcgtca 60  
 287 acttcgtcac attccacgtc catctttgca atatgcgaat ctaaacgtcg tccttgatag 120  
 289 aaaaacccag ttctgtttat ccgaacccaag tacaaggaga aggtggcgaa atgggagaag 180  
 291 ttctttgatg aggatcctct gggccaaaag atagccgatc actatgcca gttgagggaa 240  
 293 ctggtaagg aaggtaggt tttttttttt tttttttttt 300  
 295 ctcatttttag 310  
 298 <210> SEQ ID NO: 13  
 299 <211> LENGTH: 40  
 300 <212> TYPE: DNA  
 301 <213> ORGANISM: Artificial sequence  
 303 <220> FEATURE:  
 304 <223> OTHER INFORMATION: tag  
 306 <400> SEQUENCE: 13  
 307 cacgtctaga ctgcagaagc tttttttttt tttttttttt 40  
 310 <210> SEQ ID NO: 14  
 311 <211> LENGTH: 22  
 312 <212> TYPE: DNA  
 313 <213> ORGANISM: Artificial sequence  
 315 <220> FEATURE:  
 316 <223> OTHER INFORMATION: primer  
 318 <400> SEQUENCE: 14  
 319 atgcgtgcctt cattttgtctt ct 22  
 322 <210> SEQ ID NO: 15  
 323 <211> LENGTH: 22  
 324 <212> TYPE: DNA  
 325 <213> ORGANISM: Artificial sequence  
 327 <220> FEATURE:  
 328 <223> OTHER INFORMATION: primer

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Input Set : A:\PTO.RJ.txt  
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330 <400> SEQUENCE: 15  
331 cacgtctaga ctgcagaagg tt 22  
334 <210> SEQ\_ID NO: 16  
335 <211> LENGTH: 7  
336 <212> TYPE: PRT  
337 <213> ORGANISM: *Taenia saginata*  
339 <400> SEQUENCE: 16  
341 Phe Tyr Asp Glu Asp Pro Leu  
342 1 5  
345 <210> SEQ\_ID NO: 17  
346 <211> LENGTH: 20  
347 <212> TYPE: DNA  
348 <213> ORGANISM: Artificial sequence  
350 <220> FEATURE:  
351 <223> OTHER INFORMATION: primer  
353 <220> FEATURE:  
354 <221> NAME/KEY: misc\_feature  
355 <222> LOCATION: (18)..(18)  
356 <223> OTHER INFORMATION: n means A, C, G or T.  
359 <400> SEQUENCE: 17  
W--> 360 ttttaygayg argayccnyt 20  
363 <210> SEQ\_ID NO: 18  
364 <211> LENGTH: 23  
365 <212> TYPE: DNA  
366 <213> ORGANISM: Artificial sequence  
368 <220> FEATURE:  
369 <223> OTHER INFORMATION: primer  
371 <400> SEQUENCE: 18  
372 tcagttctca tcctttaact cct 23  
375 <210> SEQ\_ID NO: 19  
376 <211> LENGTH: 20  
377 <212> TYPE: DNA  
378 <213> ORGANISM: Artificial sequence  
380 <220> FEATURE:  
381 <223> OTHER INFORMATION: primer  
383 <400> SEQUENCE: 19  
384 cgaacgccaag cacatggaca 20  
387 <210> SEQ\_ID NO: 20  
388 <211> LENGTH: 21  
389 <212> TYPE: DNA  
390 <213> ORGANISM: Artificial sequence  
392 <220> FEATURE:  
393 <223> OTHER INFORMATION: primer  
395 <400> SEQUENCE: 20  
396 atgggagtcg ccatcatcgc t 21

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/25/2006  
PATENT APPLICATION: US/10/593,032 TIME: 10:29:18

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; N Pos. 18

**VERIFICATION SUMMARY**

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Input Set : A:\PTO.RJ.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0